

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent is:

1 1. A method for transmitting data in unused portions of licensed communication  
2 channels comprising:

3 selecting an unused first portion of a first licensed communication channel,  
4 configuring a transmitter to operate in said unused first portion, and  
5 transmitting downstream digital data using a transmitting antenna operating on  
6 said first portion.

1 2. The method of transmitting data of claim 1 further comprising:

2 selecting an unused second portion of a second licensed communication channel,  
3 configuring an upstream downconverter to operate in said unused second portion,  
4 and  
5 receiving upstream digital data using a receiving antenna operating on said  
6 unused second portion.

1 3. The method of transmitting data of claim 2 wherein said first communications  
2 channel and said second communications channel are different.

1 4. The method of transmitting data of claim 1 wherein said downstream digital data is  
2 selected from a group consisting of telephony signals, high-speed data, digital video  
3 signals and DTV signals.

09780677-020503

1 5. The method of transmitting data of claim 1 further comprising enabling a subscriber  
2 to select a method of transmitting upstream data from using the unused second  
3 portion, using a cable connection, and using a wired connection.

1 6. The method of transmitting data of claim 1 wherein said transmitting antenna  
2 comprises an array of transmitting antennae.

1 7. A method for receiving data in unused portions of licensed communication channels  
2 comprising:

3 selecting an unused first portion of a first licensed communication channel,  
4 configuring an upstream downconverter to operate in said unused first portion,  
5 and  
6 receiving upstream digital data using a receiving antenna operating on said first  
7 portion.

1 8. The method for receiving data of claim 7 further comprising the steps of:

2 selecting an unused second portion of a second licensed communication channel,  
3 configuring a transmitter to operate in said unused second portion, and  
4 transmitting downstream digital data using a transmitting antenna operating on  
5 said unused second portion.

1 9. The method for receiving data of claim 8 wherein said first communications channel  
2 and said second communications channel are different.



1     15.     The method for transmitting and receiving data of claim 14 wherein said first  
2     communications channel and said second communications channel are different.

1     16.     The method for receiving and receiving data of claim 14 further comprising enabling  
2     a subscriber to select a method of transmitting upstream data from using the unused  
3     second portion, using a cable connection, and using a wired connection.

4 17. The method for transmitting and receiving data of claim 14 wherein said downstream  
5 digital data and said up stream digital data is selected from a group consisting of  
6 telephony signals, high-speed data, digital video signals and DTV signals.

1     18.     The method for transmitting and receiving data of claim 14 wherein said receiving  
2     antenna comprises an array of receiving antennae.

1     19.     The method for transmitting and receiving data of claim 14 wherein said transmitting  
2     antenna comprises an array of transmitting antennae.